

RAW SEQUENCE LISTING

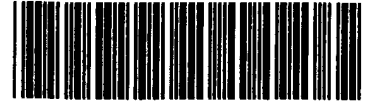
**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/813,693

Source: _____

Date Processed by STIC: _____

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 12/13/2004

PATENT APPLICATION: US/10/813,693

TIME: 13:46:27

Input Set : N:\Crif3\RULE60\10813693.raw.txt

Output Set: N:\CRF4\12132004\J813693.raw

```

1 <110> APPLICANT: TABOR, STANLEY
2   RICHARDSON, CHARLES
3 <120> TITLE OF INVENTION: ISOTHERMAL AMPLIFICATION OF DNA
4 <130> FILE REFERENCE: 249/107
5 <140> CURRENT APPLICATION NUMBER: US/10/813,693
6 <141> CURRENT FILING DATE: 2003-11-07
7 <150> PRIOR APPLICATION NUMBER: PRIOR APPLICATION NUMBER: US/09/480,878
W--> 8 <151> PRIOR FILING DATE: PRIOR FILING DATE: 2000-01-10
9 <150> PRIOR APPLICATION NUMBER: PRIOR APPLICATION NUMBER: 60/115,498
W--> 10 <151> PRIOR FILING DATE: PRIOR FILING DATE: 1999-01-11
11 <160> NUMBER OF SEQ ID NOS: 6
12 <170> SOFTWARE: FastSEQ for Windows Version 3.0
14 <210> SEQ ID NO: 1
15 <211> LENGTH: 8970
16 <212> TYPE: DNA
17 <213> ORGANISM: Bacteriophage
18 <400> SEQUENCE: 1
19   atggacaatt cgcacgattc cgatagtgtg tttctttacc acattccttg tgacaactgt      60
20   gggagtagtg atgggaactc gctgttctct gacggacaca cgttctgcta cgtatgcgag      120
21   aagtggactg ctggtaatga agacactaaa gagagggtt caaaacggaa accctccggt      180
22   ggaaagcccg ggacttacaa cgtgtggaac ttcggggaat ccaatggacg ctactccgcg      240
23   ttaactgcga gaggaatctc caaggaaacc tgtcagaagg ctggctactg gattgccaaa      300
24   gtagacggtg tgatgtacca agtggctgac tatcgggacc agaacggcaa cattgtgagt      360
25   cagaaggttc gagataaaga taagaacttt aagaccactg gtatgcacaa gagtgcgct      420
26   ctgttcggga agcacttggt gaatggtggt aagaagattg tcgttacaga aggtgaaatc      480
27   gacatgctta ccgtgatgga acttcaagac tgtaagtatc ctgtagtgtc gttgggtcac      540
28   ggtgcctctg ccgctaagaa gacatgcgct gccaaactac aatactttga ccagttcgaa      600
29   cagattatct taatgttcga tatggacgaa gcagggcgca aagcagtcga agaggctgca      660
30   caggttctac ctgctggtaa ggtacgagtg gcagttcttc cgtgtaagga tgcaaacgag      720
31   tgtcacctaa atggtcacga ccgtgaaatc atggagcaag tgtggaatgc tggctccttg      780
32   attcctgatg gtgtggtatc ggctctttcg ttacgtgaac gaatccgtga gcacctatcg      840
33   tccgaggaat cagtaggttt acttttcagt ggctgcactg gtatcaacga taagacctta      900
34   ggtgcccggt gtggtgaagt cattatggtc acttccggtt ccggtatggg taagtcaacg      960
35   ttcgtccgtc aacaagctct acaatggggc acagcgatgg gcaagaaggt aggcttagcg      1020
36   atgcttgagg agtccgttga ggagaccgct gaggacctta taggtctaca caaccgtgtc      1080
37   cgactgagac aatccgactc actaaagaga gagattattg agaacggtaa gttcgaccaa      1140
38   tggttcgatg aactgttcgg caacgatacg ttccatctat atgactcatt cgcogaggct      1200
39   gagacggata gactgctcgc taagctggcc tacatgcgct caggcttggg ctgtgacgta      1260
40   atcattctag accacatctc aatcgctcgt tccgcttctg gtgaatccga tgagcgtaag      1320
41   atgattgaca acctgatgac caagctcaaa gggttcgcta agtcaactgg ggtgggtgctg      1380
42   gtcgtaattt gtcaccttaa gaaccagac aaaggtaaag cacatgagga aggtcgcccc      1440
43   gtttctatta ctgacctacg tggttctggc gcactacgcc aactatctga tactattatt      1500
44   gcccttgagc gtaatcagca aggcgatatg cctaaccttg tcctcgttcg tattctcaag      1560

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/813,693

DATE: 12/13/2004

TIME: 13:46:27

Input Set : N:\Crif3\RULE60\10813693.raw.txt

Output Set: N:\CRF4\12132004\J813693.raw

45	tgccgcttta	ctggtgatac	tgggtatcgt	ggctacatgg	aatacaacaa	ggaaaccgga	1620
46	tggcttgaac	catcaagtta	ctcaggggaa	gaagagtcac	actcagagtc	aacagactgg	1680
47	tccaacgaca	ctgactttctg	acaggattct	tgatgacttt	ccagacgact	acgagaagtt	1740
48	tcgctggaga	gtcccattct	aatacgactc	actaaaggag	acacaccatg	ttcaaactga	1800
49	ttaagaagtt	aggccaactg	ctgggttcgta	tgtacaacgt	ggaagccaag	cgactgaacg	1860
50	atgaggctcg	taaagaggcc	acacagtcac	gcgctctggc	gattcgctcc	aaaactgggt	1920
51	ttgcgcttac	cccaaccaac	aggggatttg	ctgctttcca	ttgagcctgt	ttctctgcgc	1980
52	gacgttcgog	gcggcgtggt	tgtgcatcca	tctggattct	cctgtcagtt	agctttgggtg	2040
53	gtgtgtggca	gttgtagtcc	tgaacgaaaa	ccccccgcga	ttggcacatt	ggcagctaata	2100
54	ccggaatcgc	acttacggcc	aatgcttcgt	ttcgtatcac	acaccccaaa	gccttctgct	2160
55	ttgaatgctg	cccttcttca	gggcttaatt	tttaagagcg	tcaccttcat	ggtggtcagt	2220
56	gcgtcctgct	gatgtgctca	gtatcacccg	cagtgggtatt	tatgtcaaca	ccgccagaga	2280
57	taatttatca	ccgcagatgg	ttatctgtat	gttttttata	tgaatttatt	ttttgcaggg	2340
58	gggcattggt	tggtaggtga	gagatccggc	tgctaacaaa	gcccgaagg	aagctgagtt	2400
59	ggctgctgcc	accgctgagc	aataactagc	ataacccctt	ggggcctcta	aacgggtcct	2460
60	gaggggtttt	ttgctgaaag	gaggaactat	atccggatat	cccgcgaag	gcccggcagt	2520
61	accggcataa	ccaagcctat	gcctacagca	tccagggtga	cggtgccgag	gatgacgatg	2580
62	agcgcattgt	tagatttcat	acacgggtgc	tgactgcgtt	agcaatttaa	ctgtgataaa	2640
63	ctaccgcatt	aaagcttgcg	gcccgcactc	acgaaccctt	cggatctcga	tcccgcgaaa	2700
64	ttaatacgac	tactataggg	gagaccacaa	cggtttccct	ctagaaataa	ttttgtttta	2760
65	ctttaagaag	gagatataca	tatgcgtgaa	cgaatccgtg	agcacctatc	gtccgaggaa	2820
66	tcagtaggtt	tacttttcag	tggctgcact	ggtatcaacg	ataagacctt	aggtgcccgt	2880
67	ggtggtgaag	tcattatggt	cacttccggg	tccggtatgg	gtaagtcaac	gttcgtccgt	2940
68	caacaagctc	tacaatgggg	cacagcgatg	ggcaagaagg	taggcttagc	gatgcttgag	3000
69	gagtcggttg	aggagaccgc	tgaggacctt	ataggtctac	acaaccgtgt	ccgactgaga	3060
70	caatccgact	cactaaagag	agagattatt	gagaacggta	agttcgacca	atggttcgat	3120
71	gaactgttcg	gcaacgatac	gttccatcta	tatgactcat	tcgccgaggc	tgagacggat	3180
72	agactgctcg	ctaagctggc	ctacatgcgc	tcaggcttgg	gctgtgacgt	aatcattcta	3240
73	gaccacatct	caatcgtcgt	atccgcttct	ggtgaatccg	atgagcgtaa	gatgattgac	3300
74	aacctgatga	ccaagctcaa	aggggttcgt	aagtcaactg	gggtgggtgct	ggtcgtaatt	3360
75	tgtcacctta	agaaccacga	caaaggtaaa	gcacatgagg	aaggctcgccc	cgtttctatt	3420
76	actgacctac	gtggttcttg	cgcactacgc	caactatctg	atactattat	tgcccttgag	3480
77	cgtaatcagc	aaggcgatat	gcctaacctt	gtcctcgttc	gtattctcaa	gtgccgcttt	3540
78	actggtgata	ctggtatcgc	tggctacatg	gaatacaaca	aggaaaccgg	atggcttgaa	3600
79	ccatcaagtt	actcagggga	agaagagtca	cactcagagt	caacagactg	gtccaacgac	3660
80	actgacttct	gaggatccac	tagtaacggc	cgccagtgtg	ctggaattct	gcagatatcc	3720
81	atcacactgg	cggccgctcg	agcaccacca	ccaccaccac	tgagatccgg	ctgctaacaa	3780
82	agcccgaag	gaagctgagt	tggctgctgc	caccgctgag	caataactag	cataacccct	3840
83	tggggcctct	aaacgggtct	tgaggggttt	tttgcgtgaa	ggaggaacta	tatccggatt	3900
84	ggcgaatggg	acgcgccctg	tagcggcgca	ttaagcgcg	cgggtgtggt	ggttacgcgc	3960
85	agcgtgaccg	ctacacttgc	cagcgcccta	gcgcccgtc	ctttcgcttt	cttcccttcc	4020
86	tttctcgcca	cgttcgccgg	ctttccccgt	caagctctaa	atcggggggt	ccctttaggg	4080
87	ttccgattta	gtgctttacg	gcacctcgac	cccaaaaaac	ttgattaggg	tgatggttca	4140
88	cgtagtgggc	catcgccctg	atagacgggt	tttcgccctt	tgacgttgga	gtccacgttc	4200
89	tttaatagtg	gactcttggt	ccaaactgga	acaacactca	accctatctc	ggtctattct	4260
90	tttgatttat	aagggttttt	gccgatttcg	gcctattggt	taaaaaatga	gctgatttaa	4320
91	caaaaaattta	acgcgaattt	taacaaaata	ttaacgttta	caatttcagg	tggcactttt	4380
92	cggggaaatg	tgcgcggaac	ccctatttgt	ttatttttct	aaatacattc	aaatatgtat	4440
93	ccgctcatga	attaattctt	agaaaaactc	atcgagcatc	aatgaaaact	gcaattttatt	4500

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/813,693

DATE: 12/13/2004

TIME: 13:46:27

Input Set : N:\Crif3\RULE60\10813693.raw.txt

Output Set: N:\CRF4\12132004\J813693.raw

94	catatcagga ttatcaatac catatTTTTg aaaaagccgt ttctgtaatg aaggagaaaa	4560
95	ctcaccgagg cagttccata ggatggcaag atcctgggtat cggctctgca ttccgactcg	4620
96	tccaacatca atacaacctt ttaattttccc ctctgcaaaa ataaggttat caagtggaaa	4680
97	atcaccatga gtgacgaactg aatccgggtga gaatggcaaa agtttatgca tttctttcca	4740
98	gacttgttca acaggccagc cattacgctc gtcatacaaaa tcaactcgcat caaccaaac	4800
99	gttattcatt cgtgattgag cctgagcgag acgaaatacg cgatcgctgt taaaaggaca	4860
100	attacaaaca ggaatcgaat gcaaccggcg caggaacact gccagcgcat caacaatatt	4920
101	ttcacctgaa tcaggatatt cttctaatac ctggaatgct gttttcccg	4980
102	ggtagagtaac catgcatcat caggagtagc gataaaatgc ttgatggctg gaagaggcat	5040
103	aaattccgctc agccagttta gtctgaccat ctcatctgta acatcattgg caacgctacc	5100
104	tttgccatgt ttcagaaaca actctggcgc atcgggcttc ccatacaatc gatagattgt	5160
105	cgcacctgat tgcccgacat tatcgcgagc ccattttatac ccataataat cagcatccat	5220
106	gttggaattt aatcgcgcc tagagcaaga cgtttcccg	5280
107	ccttgattta ctggttatgt aagcagacag ttttattgtt catgaccaa atccctaac	5340
108	gtgagttttc gttccactga gcgtcagacc ccgtagaaaa gatcaaagga tcttcttgag	5400
109	atcctttttt tctgcgcgta atctgctgct tgcaaacaaa aaaaccaccg ctaccagcgg	5460
110	tggtttgttt gccggatcaa gagctaccaa ctctttttcc gaaggttaact ggcttcagca	5520
111	gagcgagat accaaatact gtccttctag tgtagccgta gttaggccac cacttcaaga	5580
112	actctgtagc accgcctaca tacctcgctc tgctaattcct gttaccagt	5640
113	gtggcgataa gtcgtgtctt accgggttg actcaagacg atagttaccg gataaggcgc	5700
114	agcggtcggg ctgaacggg ggttcgtgca cacagcccag cttggagcga acgacctaca	5760
115	ccgaactgag atacctacag cgtgagctat gagaaagcgc cagcctccc gaaggagaa	5820
116	aggcggacag gtatccggtg agcggcaggg tcggaacagg agagcgcacg agggagcttc	5880
117	cagggggaaa cgcttggtat ctttatagtc ctgtcgggtt tcgccacctc tgacttgagc	5940
118	gtcgattttt gtgatgctcg tcaggggggc ggagcctatg gaaaaacgcc agcaacgcgg	6000
119	cctttttacg gttcctggcc ttttgctggc cttttgctca catgttcttt cctgcgttat	6060
120	cccctgattc tgtggataac cgtattaccg cctttgagtg agctgatacc gctcgccgca	6120
121	gccgaacgac cgagcgcagc gagtcagtga gcgaggaagc ggaagagcgc ctgatgcggt	6180
122	attttctcct tacgcatctg tcgggtattt cacaccgcat atatggtgca ctctcagtac	6240
123	aatctgctct gatgccgcat agttaagcca gtatacactc cgctatcgct acgtgactgg	6300
124	gtcatggctg cgcgccgaca cccgccaaca cccgctgacg cgccctgacg ggcttgctg	6360
125	ctcccgcat ccgcttacag acaagctgtg accgtctccg ggagctgcat gtgtcagagg	6420
126	ttttcaccgt catcaccgaa acgcgcgagg cagctgcggt aaagctcatc agcgtggtcg	6480
127	tgaagcgatt cacagatgtc tgcctgttca tccgcgtcca gctcgttgag tttctccaga	6540
128	agcgttaatg tctggcttct gataaagcgg gccatgttaa gggcggtttt ttctgtttg	6600
129	gtcactgatg cctccgtgta agggggattt ctgttcattg ggtaatgat accgatgaaa	6660
130	cgagagagga tgctcacgat acgggttact gatgatgaac atgcccggtt actggaacgt	6720
131	tgtgagggta aacaactggc ggtatggatg cggcgggacc agagaaaaat cactcagggt	6780
132	caatgccagc gcttcgttaa tacagatgta ggtgttccac agggtagcca gcagcatcct	6840
133	gcgatgcaga tccggaacat aatggtgcag ggcgctgact tccgcgtttc cagactttac	6900
134	gaaacacgga aaccgaagac cattcatgtt gttgctcagg tcgcagacgt tttgcagcag	6960
135	cagtcgcttc acgttcgctc gcgtatcggt gattcattct gctaaccagt aaggcaacc	7020
136	cgcagccta gccgggtcct caacgacagg agcacgatca tgcgcacccg tggggccgcc	7080
137	atgccggcga taatggcctg cttctcgccg aaacgttttg tggcgggacc agtgacgaag	7140
138	gcttgagcga gggcgtgcaa gattccgaat accgcaagcg acaggccgat catcgctcg	7200
139	ctccagcgaa agcggtcctc gccgaaatg acccagagcg ctgccggcac ctgtcctacg	7260
140	agttgcatga taaagaagac agtcataagt gcggcgacga tagtcatgcc ccgcgcccac	7320
141	cggaggagc tgactgggtt gaaggctctc aagggcacatg gtcgagatcc cgggtgctaa	7380
142	tgagtgcgct aacttacatt aattgcgttg cgctcactgc ccgctttcca gtcgggaaac	7440

RAW SEQUENCE LISTING

DATE: 12/13/2004

PATENT APPLICATION: US/10/813,693

TIME: 13:46:27

Input Set : N:\Cr3\RULE60\10813693.raw.txt

Output Set: N:\CRF4\12132004\J813693.raw

143	ctgtcgtgcc agctgcatta atgaatcggc caacgcgcgg ggagaggcgg tttgcgtatt	7500
144	gggcgccagg gtggtttttc ttttcaccag tgagacgggc aacagctgat tgcccttcac	7560
145	cgccctggccc tgagagagtt gcagcaagcg gtccacgctg gtttgcccca gcaggcgaaa	7620
146	atcctgtttg atggtgggta acggcgggat ataacatgag ctgtcttcgg tatcgtcgta	7680
147	tcccaactacc gagatatccg caccaacgcg cagcccggac tcggtaatgg cgcgcattgc	7740
148	gcccagcgcc atctgatcgt tggcaaccag catcgcagtg ggaacgatgc cctcattcag	7800
149	catttgcatg gtttggtgaa aaccggacat ggcaactccag tcgccttccc gttccgctat	7860
150	cggctgaatt tgattgcgag tgagatatth atgccagcca gccagacgca gacgcgccga	7920
151	gacagaactt aatgggcccg ctaacagcgc gatttgctgg tgaccaatg cgaccagatg	7980
152	ctccacgccc agtcgcgtac cgtcttcacg ggagaaaata atactgttga tgggtgtctg	8040
153	gtcagagaca tcaagaaata acgccggaac attagtgcag gcagcttcca cagcaatggc	8100
154	atcctgggtca tccagcggat agttaatgat cagcccactg acgcgttgcg cgagaagatt	8160
155	gtgcaccgcc gctttacagg cttecgacgc gcttcgttct accatcgaca ccaccacgct	8220
156	ggcaccagtg tgatcggcgc gagatttaat cgccgcgaca atttgcgacg gcgcgtgcag	8280
157	ggccagactg gaggtggcaa cgccaatcag caacgactgt ttgcccgcga gttgttgtgc	8340
158	cacgcggttg ggaatgtaat tcagctccgc catcgccgct tccacttttt cccgcgtttt	8400
159	cgcagaaacg tggctggcct gggtcaccac gcgggaaacg gtctgataag agacaccggc	8460
160	atactctgcy acatcgata acggtactgg tttcacattc accaccctga attgactctc	8520
161	ttccgggcgc tatcatgcca taccgcgaaa ggttttgcg cattcgatgg tgtccgggat	8580
162	ctcgacgctc tcccttatgc gactcctgca ttaggaagca gccagtagt aggttgaggc	8640
163	cgttgagcac cgccgcgcga aggaatggtg catgcaagga gatggcgccc aacagtcccc	8700
164	cgccacggg gcctgccacc ataccacgc cgaaacaagc gctcatgagc ccgaagtggc	8760
165	gagcccgatc tccccatcg gtgatgtcgg cgatataggc gccagcaacc gcacctgtgg	8820
166	cgccggtgat gccggccacg atgcgtccgg cgtagaggat cgagatctcg atcccgcgaa	8880
167	attaatacga ctactatag gggaattgtg agcggataac aattcccctc tagaaataat	8940
168	tttgtttaac ttttaagaag agatatacat	8970
170	<210> SEQ ID NO: 2	
171	<211> LENGTH: 19	
172	<212> TYPE: DNA	
173	<213> ORGANISM: Bacteriophage	
174	<220> FEATURE:	
175	<223> OTHER INFORMATION: BAC-1	
176	<400> SEQUENCE: 2	
177	cgcggtacac cgacgtcaa	19
179	<210> SEQ ID NO: 3	
180	<211> LENGTH: 19	
181	<212> TYPE: DNA	
182	<213> ORGANISM: Bacteriophage	
183	<220> FEATURE:	
184	<223> OTHER INFORMATION: BAC-2	
185	<400> SEQUENCE: 3	
186	cgcggtacac cgacttaat	19
188	<210> SEQ ID NO: 4	
189	<211> LENGTH: 10	
190	<212> TYPE: DNA	
191	<213> ORGANISM: Bacteriophage	
192	<220> FEATURE:	
193	<223> OTHER INFORMATION: BAC-3	
194	<400> SEQUENCE: 4	

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/813,693

DATE: 12/13/2004

TIME: 13:46:27

Input Set : N:\Crf3\RULE60\10813693.raw.txt

Output Set: N:\CRF4\12132004\J813693.raw

195	gtcgggtgtac	10
197	<210> SEQ ID NO: 5	
198	<211> LENGTH: 23	
199	<212> TYPE: DNA	
200	<213> ORGANISM: Bacteriophage	
201	<220> FEATURE:	
202	<223> OTHER INFORMATION: T7	
203	<400> SEQUENCE: 5	
204	taatacgcact cactataggg cga	23
206	<210> SEQ ID NO: 6	
207	<211> LENGTH: 24	
208	<212> TYPE: DNA	
209	<213> ORGANISM: Bacteriophage	
210	<220> FEATURE:	
211	<223> OTHER INFORMATION: SP6	
212	<400> SEQUENCE: 6	
213	catacgattt aggtgacact atag	24

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/813,693

DATE: 12/13/2004

TIME: 13:46:28

Input Set : N:\Crf3\RULE60\10813693.raw.txt

Output Set: N:\CRF4\12132004\J813693.raw

L:8 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD

L:10 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD